



Mircom MIX-2251RAP Intelligent Smoke Sensor With Remote Test Owner's Manual

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Mircom MIX-2251RAP Intelligent Smoke Sensor With Remote Test



Description

Mircom's low profile intelligent plug-in smoke detectors with integral communications provide features that surpass conventional detectors. Sensitivity is continuously monitored and reported to the panel where the desired detector sensitivity can be programmed. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector locations for selective maintenance when chamber contamination reaches an unacceptable level.

Mircom's Advanced Protocol (AP) devices use a high speed communication protocol that greatly increases the speed of communication between the intelligent devices. Mircom's Advanced Protocol uses a superior group polling method as well as an interrupt feature that provide for a faster response to an alarm condition. In addition, the Advanced Protocol allows for greater system capacity with support for up to 318 devices per SLC circuit. The AP devices are backwards compatible to operate in CLIP mode for legacy system applications.

Features

- Sleek, low profile design
- Photoelectric technology
- Remote test capability in duct applications.
- Dual LEDs indicate communications and activate steady when in alarm
- Low profile base provides easy interchangeability
- Low standby current
- Rotary switches for direct-dial entry of address.
- Magnetic test feature
- Tamper Resistance

MIX-2251RAP Intelligent Photoelectric Smoke Sensor with remote test capability in Duct Applications

The MIX-2251RAP is a plug-in type smoke sensor that combines a photoelectronic sensing chamber with addressable-analog communications. The sensor transmits an analog representation of smoke density over a communication line to a control panel. Rotary switches are provided for setting the sensor's address.

Two LEDs on the sensor are controlled by the panel it indicate sensor status. An output is provided for connection to an optional remote LED annunciator.

When MIX-2251RAP is used in duct applications with a DN, testing can be done remotely using approved test accessories(, eliminating the need for a test coil.

The MIX-2251RAP requires compatible addressable communications to function properly. Connect to a compatible control panel only.

The MIX-2251RAP includes a tamper-resistant capability that prevents its removal from the bracket without the use of a tool.

Specifications

| |
|--|
| Voltage Range |
| 15 to 32 VDC |
| Standby Current |
| 300 uA @ 24 VDC (one communication every 5 sec. with LED blink enabled) |
| LED Current (max.) |
| 6.5 mA @ 24 VDC (on) |
| Height |
| 2.0 inches (51 mm) installed in B210LP Base |
| Diameter |
| 6.1 inches (155 mm) installed in B210LP Base 4.1 inches (104 mm) installed in B501 Base |

| |
|--|
| Shipping Weight |
| 5.2 oz. (147 g) |
| Operating Humidity Range |
| 10% – 93% non-condensing |
| Operating Temperature Range |
| MIX-2251RAP: 32°F to 120°F (0°C to 49°C) Duct Applications: -4°F to 158°F (-20°C to 70°C) |
| UL Listed Velocity Range |
| Air Velocity: 0 – 4000 fpm |

Ordering Information

| Model | Description |
|--------------------|--|
| MIX-2251RAP | Intelligent Photoelectric Smoke Sensor with Remote Test Capability for Duct Applications |
| Bases | |
| B501 | Intelligent Flangeless Mounting Base |
| B210LP | Intelligent Flanged Mounting Base |
| Accessories | |
| RA-100Z | Remote LED Annunciator |

Canada

25 Interchange Way Vaughan, Ontario L4K 5W3 Telephone: (905) 660-4655 Fax: (905) 660-4113
www.mircom.com

U.S.A.

4575 Witmer Industrial Estates Niagara Falls, NY 14305
Toll Free: (888) 660-4655 Fax Toll Free: (888) 660-4113

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Documents / Resources



References

- [!\[\]\(2824aab9645d9fab95bae27ff6828dab_img.jpg\) Fire Alarm Resources | Download fire alarm documents](#)
- [!\[\]\(0fbf3ad74a6c8dc44ba9ea17fc2aca5e_img.jpg\) Mircom - Smart Buildings. Smarter Solutions.](#)